



Potential Hazardous Waste Site

Preliminary Assessment

for

WELLMAN DYNAMICS CORPORATION
Highway #34 East
Creston, Iowa

On-Site Inspection and Assessment
Performed by Ken Lawver
Environmental Protection Agency
Emergency Response Branch, Region VII

December 13, 1983

429037



RCRA RECORDS



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

REGION 7
25 FUNSTON ROAD
KANSAS CITY, KANSAS 66115

1A D06521873

February 2, 1984

MEMORANDUM

SUBJECT: Transmittal, Preliminary Assessment for Wellman Dynamics,
Creston, Iowa

FROM: Ken Lawver *Ken Lawver*
EP&R/ENSV

TO: Robert L. Morby
Chief, WMBR/ARWM

THRU: William J. Keffer *WJ Keffer*
Chief, EP&R/ENSV

John C. Wicklund *JCW*
Director, ENSV

David A. Wagoner
Director, ARWM

Attached for your information and use is a preliminary assessment for the Wellman Dynamics Company in Creston, Iowa. The report recommends a low priority for further investigation.

Attachment

EPA-ARWM/WMBR

FEB 10 1984

Region VII K.C., MO

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PREPARED BY: Ken Lawver
Environmental Engineer
Emergency Planning and Response Branch
Environmental Services Division

SECTION I: INTRODUCTION

Section 103(c), public law 96-510 requires any person who has disposed of a hazardous substance, not subject to Subtitle C of the solid waste disposal act, to notify EPA of the amount and type of hazardous substance to be found there and any known, suspected or likely releases of such substances.

Land disposal facilities that contain hazardous wastes are to be investigated and evaluated as a part of EPA's nationwide waste management program. This preliminary investigation assesses each site according to its hazard potential and recommends a priority for a followup inspection of high, medium, low or none. The followup inspections or "full field investigations" are performed after the preliminary assessment and begin with sites having the highest hazard potential.

The objectives of the preliminary assessment are as follows:

- A. Obtain and review background information on each of the sites.
- B. To interview company and government officials and to perform an inspection of the sites without sampling (unless deemed necessary).
- C. To submit a formal report recommending whether these facilities should continue to be considered as potentially hazardous wastes sites, the seriousness of the possible hazards posed by the sites and the priority of future investigations to be made.

This preliminary assessment report is prepared as a result of a June 9, 1981, notification of hazardous wastes by Wellman Dynamics Corporation in Creston, Iowa.

The conclusions reached regarding the potential hazards posed by this site and recommendations on seriousness and priority of future investigations can be found in Section 7.

SECTION 2: HISTORY OF SITE

The Wellman Dynamics Corporation is located in Creston, Iowa, a small community with a population of 8,429 by the 1980 census. The plant in Creston was built in 1965 as an aluminum and magnesium foundry and provides castings primarily for the aerospace industry. Wellman Dynamics was initially owned by Hills McAnna, Chicago, Illinois, then was held by private industries and is presently owned by a British company called Custom Technologies.

The company employs approximately 300 people, but at the height of production has employed about 500 people. Casting production has reached 312 tons, but averages approximately 200 tons.

The Notification of Hazardous Waste EPA form 8900-1 was submitted by the company on June 9, 1981, listing the waste dump pit as a potential superfund site. The location of the waste dump pit is shown on the site sketch map, page A-3. Waste acids were placed in the pit between 1965 and 1971 and consisted of a mixture of hydrofluoric, nitric, sulfuric and chromic acids. The acids are used to etch the castings.

Use of the waste pit for disposal of the spent acids was discontinued in 1971 because plant capacity had increased to where waste acids were close to exceeding the capacity of the waste pit and because of company concern about the disposal method. Waste acids were shipped to Conservation Chemical in Kansas City from 1971 to 1981.

SECTION 3: RECEPTORS

Wellman Dynamics Corporation lies to the southeast of the City of Creston.¹ There are no residences within 1,000 feet of the site. The waste pit has concrete walls and is capped with a 6-inch concrete slab. No visible evidence of acid residue is apparent around the dump pit.

The drinking water source for the city of Creston is from Summit and Green Valley Lakes to the northwest. No known groundwater wells are present in the nearby area and there are no known critical environments that might be affected.

The Middle Platte River is approximately 1,000 feet to the south of the site and surface drainage from Wellman Dynamics would flow to the river.

SECTION 4: PATHWAYS

Most of the land surrounding Creston is used for agricultural purposes. The soil series in the vicinity of Wellman Dynamics and including the area around the waste dump pit is the Clarinda series. The Clarinda series consists of poorly-drained soils and slopes are 5 to 14 percent.³ Clarinda soils have a very slow permeability and a high available water capacity.³ Permeability at depths below 7 inches is less than 0.06 in./hr. and the soils are silty clay and clay combination resulting in slow movement of liquids through it. Clarinda soils are used primarily for hay and pasture.³

Most parts of south-central Iowa have been chronically short of good-quality water.⁴ Municipalities have experienced serious problems in obtaining potable supplies adequate to keep pace with their growth and development; industry has been hindered and continues to be hindered by the shortage of good quality water; and rural supplies for domestic and livestock use are difficult to obtain in many places.⁴ Poor quality of groundwater in the Creston area resulted in the city using surface water from Summit and Green Valley Lakes for their drinking water supply. Two test wells (see A-2) dug by the city in 1934 did not yield sufficient water and were capped over. The major bedrock aquifers underlying of the region are the Missippian aquifer, the Devonian aquifer, and the Cambrian-Ordovician aquifer.⁴ The three aquifers are approximately 1,250 feet, 1,750 feet and 2,900 feet below the surface in the Creston area.

SECTION 5: WASTE CHARACTERISTICS

The types of hazardous wastes reported by Wellman Dynamics Corporation are acids and heavy metals. The acids consisted of a mixture of hydrofluoric, nitric, sulfuric and chromic acids. The heavy metal, chromium was contained in the chromic acid. Chromium would be considered highly toxic and persistent. It is moderately soluble in water and chromium oxide is a known carcinogen and bioaccumulate.

The company estimates that 10,000 gallons of acid wastes were disposed of in the waste dump pit between 1965 and 1971. Since the spent acid solutions were placed in the waste pit in a combined form no representative estimate individual amounts per acid type could be made. No tests were performed on the spent solutions, therefore, concentration levels are also unknown.

SECTION 6: WASTE MANAGEMENT PRACTICES

When use of the pit was discontinued in 1971, it was filled with sand and capped over with concrete.

The waste dump pit has approximately 6-inch concrete walls and the cap is a 6-inch concrete slab. It is assumed that all the acid material has leached through the limestone rocks at the bottom of the pit. There is no evidence of contamination on the surface near the concrete slab.

No liners, leachate collection system, gas collection system or containers were used to dispose of the acids.

SECTION 7: COMMENTS AND RECOMMENDATIONS

It is expected that all acid material placed in the pit has leached into the soil. Except for a possible perched water table, the Mississippian aquifer would be closest to the surface and it would be approximately 1,250 feet deep at Creston. Two test wells by the city of Creston each penetrated the Pennsylvanian confining bed.² One well in Sec. 11, T72N, R31W reached the Pennsylvanian at 162 feet and reported no water except for small deposits in the alluvian at 10 feet to 20 feet depths. The other test well in Sec. 6, T72N, R30W reported no water. The test wells were both completed in 1934 and were capped over and abandoned.

The recommended priority for this site is a low priority for future investigation (see A-4).

SECTION 8: REFERENCES

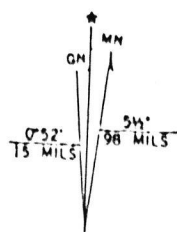
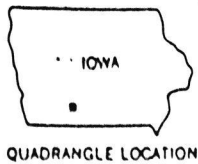
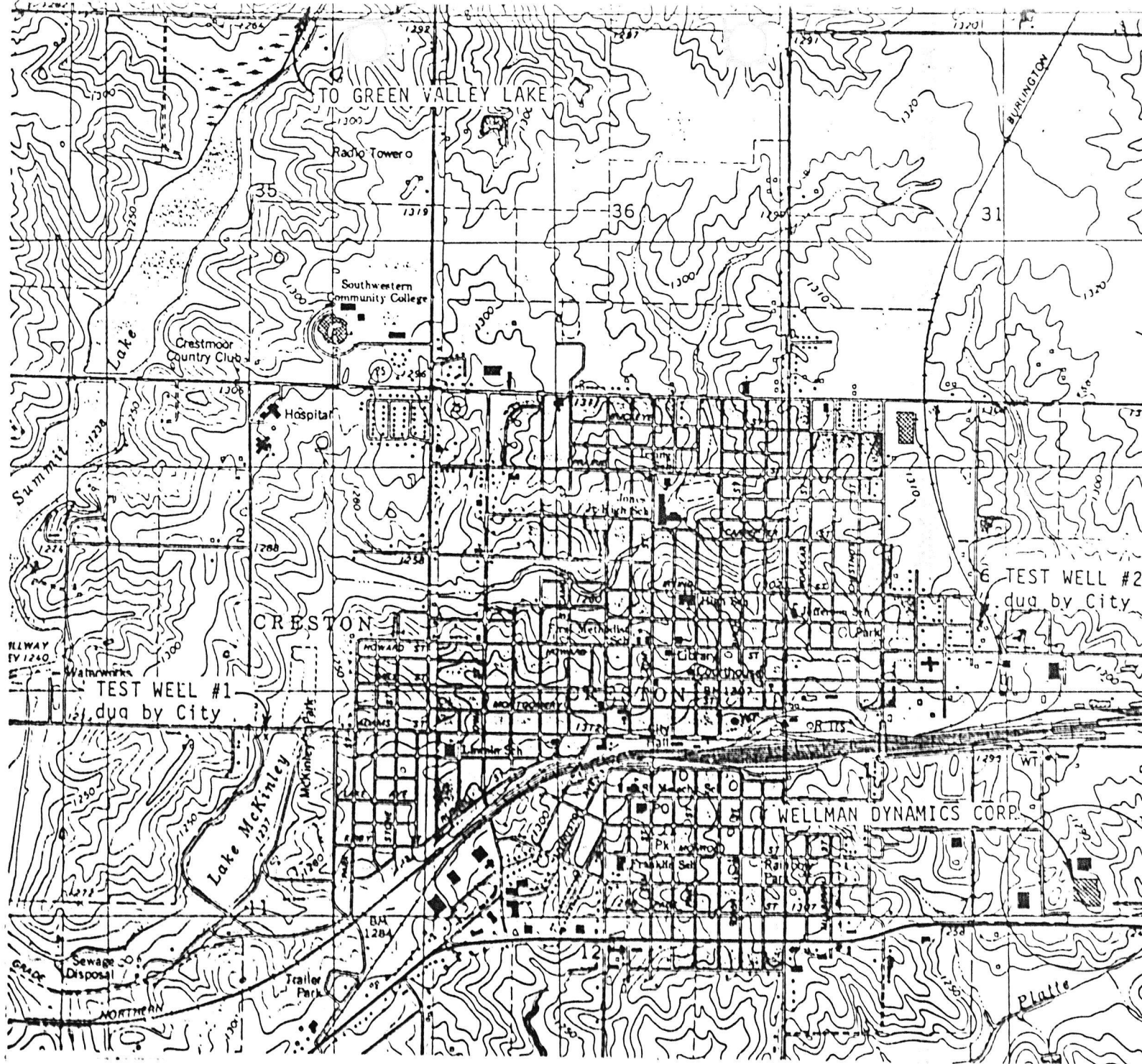
1. Creston West (1981), Creston East (1980) Quadrangle 7.5 minute series topographic map, U.S. Geologic Survey, Rolla, Missouri.
2. List of water wells supplied by Iowa Geological Survey, Iowa City, Iowa, 1983.
3. Soil Survey of Union County, Iowa, John R. Nixon and Louis E. Boeckman, U.S. Department of Agriculture, Soil Conservation Service in cooperation with the Iowa Agricultural Experiment Station, State of Iowa, 1978.
4. The Water Resources of South-Central Iowa, Joseph W. Cagle and A. J. Heinitz, U.S. Geological Survey, Iowa, 1978, in cooperation with the Iowa Geological Survey.

APPENDIX

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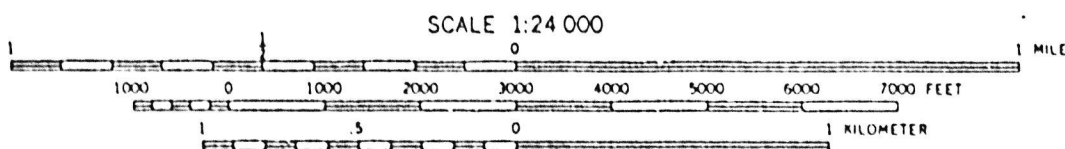
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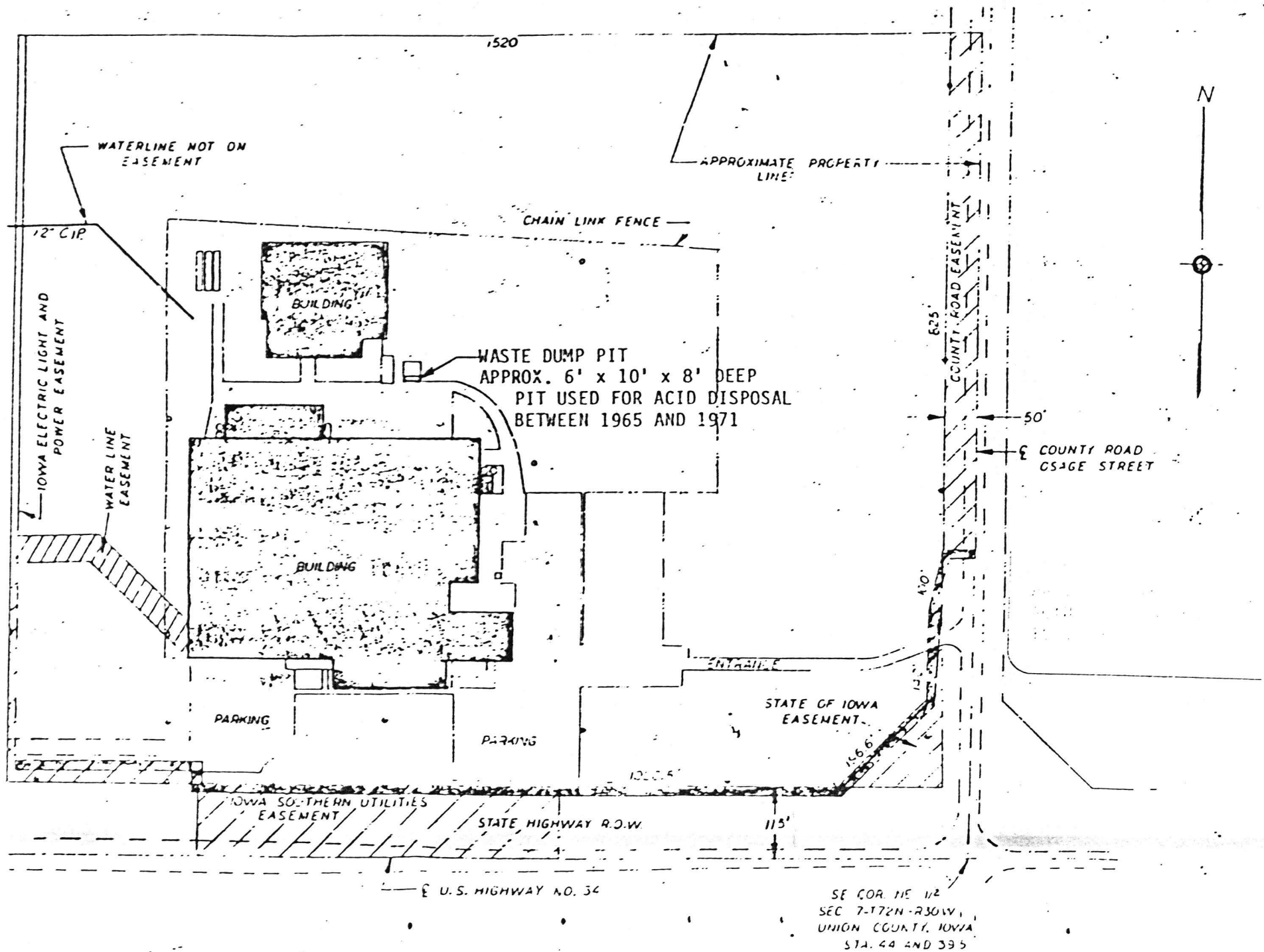
TOPOGRAPHIC MAP

SUMMIT AND GREEN VALLEY LAKE ...
PROVIDE THE DRINKING WATER
SUPPLY FOR CITY OF CRESTON



CONTOUR INTERVAL 10 FEET
NATIONAL GEODETIC VERTICAL DATUM OF 1929

CRESTON WEST, IOWA
N4100-W9422.5/7.5
1981
CRESTON EAST, IOWA
N4100-W9415/7.5



WELLMAN DYNAMICS CORPORATION

SITE SKETCH MAP



POTENTIAL HAZARDOUS WASTE SITE
PRELIMINARY ASSESSMENT
PART 1 - SITE INFORMATION AND ASSESSMENT

I. IDENTIFICATION

01 STATE 02 SITE NUMBER
IA AD065218737

II. SITE NAME AND LOCATION

01 SITE NAME (Legal, common, or descriptive name of site) WELLMAN DYNAMICS		02 STREET, ROUTE NO., OR SPECIFIC LOCATION IDENTIFIER P. O. Box 147, U. S. Route 34			
03 CITY CRESTON	04 STATE IA	05 ZIP CODE 50801	06 COUNTY Union	07 COUNTY CODE 88	08 CONG DIST 5
09 COORDINATES LATITUDE _____ LONGITUDE _____					
10 DIRECTIONS TO SITE (Starting from nearest public road)					

III. RESPONSIBLE PARTIES

01 OWNER (if known) Customs Technologies (James Howarth)		02 STREET (Business, mailing, residential) P. O. Box 147, U. S. Route 34			
03 CITY Creston	04 STATE IA	05 ZIP CODE 50801	06 TELEPHONE NUMBER 515 782-8521	Ext. 282	
07 OPERATOR (if known and different from owner) James Lauer		08 STREET (Business, mailing, residential) P. O. Box 147, U. S. Route 34			
09 CITY Creston	10 STATE IA	11 ZIP CODE 50801	12 TELEPHONE NUMBER 515 782-8521		
13 TYPE OF OWNERSHIP (Check one) <input checked="" type="checkbox"/> A. PRIVATE <input type="checkbox"/> B. FEDERAL: _____ (Agency name) <input type="checkbox"/> C. STATE <input type="checkbox"/> D. COUNTY <input type="checkbox"/> E. MUNICIPAL <input type="checkbox"/> F. OTHER: _____ (Specify) <input type="checkbox"/> G. UNKNOWN					
14 OWNER/OPERATOR NOTIFICATION ON FILE (Check all that apply) <input checked="" type="checkbox"/> A. RCRA 3001 DATE RECEIVED: <u>8/13/81</u> <input checked="" type="checkbox"/> B. UNCONTROLLED WASTE SITE (RCRA 103(c)) DATE RECEIVED: <u>6/12/81</u> <input type="checkbox"/> C. NONE MONTH DAY YEAR MONTH DAY YEAR					

IV. CHARACTERIZATION OF POTENTIAL HAZARD

01 ON SITE INSPECTION <input checked="" type="checkbox"/> YES DATE <u>12/13/83</u> <input type="checkbox"/> NO MONTH DAY YEAR		BY (Check all that apply) <input checked="" type="checkbox"/> A. EPA <input type="checkbox"/> B. EPA CONTRACTOR <input type="checkbox"/> C. STATE <input type="checkbox"/> D. OTHER CONTRACTOR <input type="checkbox"/> E. LOCAL HEALTH OFFICIAL <input type="checkbox"/> F. OTHER: _____ (Specify) CONTRACTOR NAME(S): _____			
02 SITE STATUS (Check one) <input type="checkbox"/> A. ACTIVE <input checked="" type="checkbox"/> B. INACTIVE <input type="checkbox"/> C. UNKNOWN		03 YEARS OF OPERATION BEGINNING YEAR <u>1965</u> ENDING YEAR <u>1971</u> <input type="checkbox"/> UNKNOWN			

04 DESCRIPTION OF SUBSTANCES POSSIBLY PRESENT, KNOWN, OR ALLEGED

combination of three acids - Hydraflouric, Nitric, Sulfuric, and Chromic

05 DESCRIPTION OF POTENTIAL HAZARD TO ENVIRONMENT AND/OR POPULATION

Potential contamination of soil and detrimental amounts of chromium residue in acid plume in soil.

V. PRIORITY ASSESSMENT

01 PRIORITY FOR INSPECTION (Check one. If high or medium is checked, complete Part 2 - Waste Information and Part 3 - Description of Hazardous Conditions and Incidents) <input type="checkbox"/> A. HIGH (Inspection required promptly) <input type="checkbox"/> B. MEDIUM (Inspection required) <input checked="" type="checkbox"/> C. LOW (Inspect on time available basis) <input type="checkbox"/> D. NONE (No further action needed, complete current disposition form)			
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VI. INFORMATION AVAILABLE FROM

01 CONTACT James Lauer	02 OF (Agency/Organization) Wellman Dynamics Company		03 TELEPHONE NUMBER 515 782-8521	
04 PERSON RESPONSIBLE FOR ASSESSMENT Ken Lawver	05 AGENCY EPA	06 ORGANIZATION EP&R Branch	07 TELEPHONE NUMBER 913-236-3838	08 DATE 12/13/83 MONTH DAY YEAR



POTENTIAL HAZARDOUS WASTE SITE
PRELIMINARY ASSESSMENT

PART 3 - DESCRIPTION OF HAZARDOUS CONDITIONS AND INCIDENTS

L IDENTIFICATION

01 STATE 02 SITE NUMBER
IA IAD065218737

W. HAZARDOUS CONDITIONS AND INCIDENTS

01 ☒ A GROUNDWATER CONTAMINATION 02 ☐ OBSERVED (DATE _____) ☒ POTENTIAL ☐ ALLEGED
03 POPULATION POTENTIALLY AFFECTED: _____ 04 NARRATIVE DESCRIPTION

No known groundwater resources are used in the vicinity of the plant site

01 ☐ B SURFACE WATER CONTAMINATION 02 ☐ OBSERVED (DATE _____) ☐ POTENTIAL ☐ ALLEGED
03 POPULATION POTENTIALLY AFFECTED: _____ 04 NARRATIVE DESCRIPTION

01 ☐ C CONTAMINATION OF AIR 02 ☐ OBSERVED (DATE _____) ☐ POTENTIAL ☐ ALLEGED
03 POPULATION POTENTIALLY AFFECTED: _____ 04 NARRATIVE DESCRIPTION

01 ☐ D FIRE/EXPLOSIVE CONDITIONS 02 ☐ OBSERVED (DATE _____) ☐ POTENTIAL ☐ ALLEGED
03 POPULATION POTENTIALLY AFFECTED: _____ 04 NARRATIVE DESCRIPTION

01 ☐ E DIRECT CONTACT 02 ☐ OBSERVED (DATE _____) ☐ POTENTIAL ☐ ALLEGED
03 POPULATION POTENTIALLY AFFECTED: _____ 04 NARRATIVE DESCRIPTION

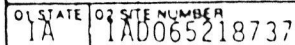
01 ☒ F CONTAMINATION OF SOIL 02 ☐ OBSERVED (DATE _____) ☒ POTENTIAL ☐ ALLEGED
03 AREA POTENTIALLY AFFECTED: _____ (Acres) 04 NARRATIVE DESCRIPTION

Acid plume has probably contaminated soil below the pit bottom

01 ☐ G DRINKING WATER CONTAMINATION 02 ☐ OBSERVED (DATE _____) ☐ POTENTIAL ☐ ALLEGED
03 POPULATION POTENTIALLY AFFECTED: _____ 04 NARRATIVE DESCRIPTION

01 ☐ H WORKER EXPOSURE/INJURY 02 ☐ OBSERVED (DATE _____) ☐ POTENTIAL ☐ ALLEGED
03 WORKERS POTENTIALLY AFFECTED: _____ 04 NARRATIVE DESCRIPTION

01 ☐ I POPULATION EXPOSURE/INJURY 02 ☐ OBSERVED (DATE _____) ☐ POTENTIAL ☐ ALLEGED
03 POPULATION POTENTIALLY AFFECTED: _____ 04 NARRATIVE DESCRIPTION



☐ I. HIGHLY VOLATILE
☐ J. EXPLOSIVE
☐ K. REACTIVE
☐ L. INCOMPATIBLE
☐ M. NOT APPLICABLE

A - 5



POTENTIAL HAZARDOUS WASTE SITE
PRELIMINARY ASSESSMENT
PART 3 - DESCRIPTION OF HAZARDOUS CONDITIONS AND INCIDENTS

I. IDENTIFICATION

01 STATE 02 SITE NUMBER
IA AD065218737

II. HAZARDOUS CONDITIONS AND INCIDENTS (Continued)

01 ☐ J. DAMAGE TO FLORA
04 NARRATIVE DESCRIPTION

02 ☐ OBSERVED (DATE: _____) ☐ POTENTIAL ☐ ALLEGED

01 ☐ K. DAMAGE TO FAUNA
04 NARRATIVE DESCRIPTION (Include name(s) of species)

02 ☐ OBSERVED (DATE: _____) ☐ POTENTIAL ☐ ALLEGED

01 ☐ L. CONTAMINATION OF FOOD CHAIN
04 NARRATIVE DESCRIPTION

02 ☐ OBSERVED (DATE: _____) ☐ POTENTIAL ☐ ALLEGED

01 ☐ M. UNSTABLE CONTAINMENT OF WASTES

(Spills, runoff, standing liquids, leaking drums)

03 POPULATION POTENTIALLY AFFECTED: _____

02 ☐ OBSERVED (DATE: _____) ☐ POTENTIAL ☐ ALLEGED

04 NARRATIVE DESCRIPTION

01 ☐ N. DAMAGE TO OFFSITE PROPERTY
04 NARRATIVE DESCRIPTION

02 ☐ OBSERVED (DATE: _____) ☐ POTENTIAL ☐ ALLEGED

01 ☐ O. CONTAMINATION OF SEWERS, STORM DRAINS, WWTPs
04 NARRATIVE DESCRIPTION

02 ☐ OBSERVED (DATE: _____) ☐ POTENTIAL ☐ ALLEGED

01 ☐ P. ILLEGAL/UNAUTHORIZED DUMPING
04 NARRATIVE DESCRIPTION

02 ☐ OBSERVED (DATE: _____) ☐ POTENTIAL ☐ ALLEGED

05 DESCRIPTION OF ANY OTHER KNOWN, POTENTIAL, OR ALLEGED HAZARDS

III. TOTAL POPULATION POTENTIALLY AFFECTED: _____

IV. COMMENTS

The dump pit was filled in with sand in 1971 and was capped over with a concrete cap of approximately 6" thickness. The walls of the pit are also concrete and about 6" thick. The plant storm sewer drains to the south towards the little platte river.

V. SOURCES OF INFORMATION (Cite specific references as to e.g., State Dept. sampling analysis reports)



INITIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT

REGION SITE NUMBER (to be assigned by HQ)

IAD 065218737

GENERAL INSTRUCTIONS: Complete Sections I and III through XV of this form as completely as possible. Then use the information on this form to develop a Tentative Disposition (Section II). File this form in its entirety in the regional Hazardous Waste Log File. Be sure to include all appropriate Supplemental Reports in the file. Submit a copy of the forms to: U.S. Environmental Protection Agency; Site Tracking System; Hazardous Waste Enforcement Task Force (EN-335); 401 M St., SW; Washington, DC 20460.

I. SITE IDENTIFICATION

A. SITE NAME <u>Wellman Dynamics</u>		B. STREET (or other identifier)	
C. CITY <u>Creston</u>	D. STATE <u>IA</u>	E. ZIP CODE <u>50801</u>	F. COUNTY NAME <u>Union</u>
G. SITE OPERATOR INFORMATION		2. TELEPHONE NUMBER	
1. NAME <u>James Hauer</u>		<u>515-782-8521</u>	
3. STREET <u>U.S. Rt 34</u>		4. CITY <u>Creston</u>	
H. REALTY OWNER INFORMATION (if different from operator of site)		5. STATE <u>IA</u>	
1. NAME <u>Custom Technologies</u>		6. ZIP CODE <u>50801</u>	
3. CITY <u>Creston</u>		7. TELEPHONE NUMBER <u>515-782-8521</u>	
I. SITE DESCRIPTION <u>Potential contamination of soil and detrimental amounts of Chromium residue in plum in soil</u>		8. STATE <u>IA</u>	
J. TYPE OF OWNERSHIP		9. ZIP CODE <u>50801</u>	
<input type="checkbox"/> 1. FEDERAL <input type="checkbox"/> 2. STATE <input type="checkbox"/> 3. COUNTY <input type="checkbox"/> 4. MUNICIPAL <input checked="" type="checkbox"/> 5. PRIVATE		10. DATE <u>2-16-84</u>	

II. TENTATIVE DISPOSITION (complete this section last)

A. ESTIMATE DATE OF TENTATIVE DISPOSITION (mo., day, & yr.)	B. APPARENT SERIOUSNESS OF PROBLEM
	<input type="checkbox"/> 1. HIGH <input type="checkbox"/> 2. MEDIUM <input type="checkbox"/> 3. LOW <input type="checkbox"/> 4. NONE
C. PREPARER INFORMATION	
1. NAME <u>Information taken from the Prel. Assessment form</u>	2. TELEPHONE NUMBER
<u>Ann Monty</u>	<u>2-16-84</u>
3. DATE (mo., day, & yr.)	

III. INSPECTION INFORMATION

A. PRINCIPAL INSPECTOR INFORMATION	
1. NAME <u>Ken Hawver</u>	2. TITLE <u>1</u>
3. ORGANIZATION <u>EPA</u>	4. TELEPHONE NO. (area code & no.) <u>913-236-3838</u>
B. INSPECTION PARTICIPANTS	

1. NAME	2. ORGANIZATION	3. TELEPHONE NO.

C. SITE REPRESENTATIVES INTERVIEWED (corporate officials, workers, residents)

1. NAME	2. TITLE & TELEPHONE NO.	3. ADDRESS

Subject: Review of the Preliminary Assessment
for the Wellman Dynamics Site, Canton,
IA

Summary of Report:

Notification: CERCLA 103(c) on 6/9/81

Ownership: Built ~~by~~ in 1965 and owned by
Hille McDermott, then held by private
industries, and now owned by Custom
Technology

History and Problem: Acids consisting of hydro-
fluoric, nitric, sulfuric, and chromic acids
were disposed of in a 6' x 10' x 8' deep pit
made of concrete from 1965 to 1971. Total
amount disposed is estimated to be
about 10,000 gallons. No individual amounts
per acid type is known. The pit has
since been filled with sand and capped.
Acid has leached through the limestone
rocks at bottom of pit. No evidence of
surface contamination is present. No
known groundwater wells are in the
nearby area or are no known critical
environment.

Recommendations:

Due to the large quantity of
acids disposed and their particular work

individual accounts; groundwater analysis
for migration should be performed.

Site Name: Wellman Dynamics Corp EPA ID#: IA065218737

Alias Site Names: _____

City: Creston County or Parish: Union State: IA

Refer to Report Dated: None Report type: File review per state request

Report developed by: for update to State Registry of HW Sites

DECISION:

☒ 1. Further Remedial Site Assessment under CERCLA (Superfund) is not required because:

☒ 1a. Site does not qualify for further remedial site assessment under CERCLA (Site Evaluation Accomplished - SEA) | 1b. Site may qualify for further action, but is deferred to: | RCRA | NRC

| 2. Further Assessment Needed Under CERCLA: 2a. (optional) Priority: | Higher | Lower

2b. Activity | PA | ESI
Type: | SI | HRS evaluation

| Other: _____

DISCUSSION/RATIONALE:

The Iowa DNR requested that EPA assist in updating their Registry of HW Sites.

Review of the file confirms SEA status. Past disposal of acid wastes and trivalent chrome appears to pose no health / environmental threat. (Disposal Pit was capped in 1971).

Iowa Department of Public Health is monitoring the site due to past disposal of waste potentially contaminated with Thorium. (last Report 11/19/90)

Site is referred to Iowa DNR for continued Monitoring.

Report Reviewed and Approved by: Pete Culver Signature: Pete Culver Date: 10/14/93

Site Decision Made by: Pete Culver Signature: Pete Culver Date: 10/14/93

Wellman Dynamics
IA065218737
1.5

10-14-93